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## NOTICE OF ALLOWANCE AND FEE(S) DUE

23117

7590

03/09/2009

NIXON & VANDERHYE, PC 901 NORTH GLEBE ROAD, 11TH FLOOR ARLINGTON, VA 22203

EXAMINER				
ENSEY, BRIAN				
ART UNIT	PAPER NUMBER			
2614				

DATE MAILED: 03/09/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/567.456	03/29/2006	John Reid	BJS-620-415	4449

TITLE OF INVENTION: ELECTRO-ACOUSTIC DEVICE FOR CREATING PATTERNS OF PARTICULATE MATTER

I	APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
	nonprovisional	YES	\$755	\$300	\$0	\$1055	06/09/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

### PART B - FEE(S) TRANSMITTAL

### Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

CURRENT CORRESPONDI	ENCE ADDRESS (Note: Use Bl	ock 1 for any change of address)	Feed	s) Transmittal, This	s certif	icate cannot be used for	domestic mailings of the or any other accompanying to formal drawing, must
	7590 03/09 NDERHYE, PC LEBE ROAD, 11TH VA 22203			Cert	ificate	of Mailing or Transr	
							(Depositor's name)
							(Signature)
				I			(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR			RNEY DOCKET NO.	CONFIRMATION NO.
10/567,456 TITLE OF INVENTION	03/29/2006 : ELECTRO-ACOUSTI	C DEVICE FOR CREAT	John Reid FING PATTERNS OF PAI	RTICULATE MAT		BJS-620-415	4449
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE	FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$755	\$300	\$0		\$1055	06/09/2009
EXAM	INER	ART UNIT	CLASS-SUBCLASS				
ENSEY,	BRIAN	2614	381-431000				
"Fee Address" ind. PTO/SB/47; Rev 03-0 Number is required.  3. ASSIGNEE NAME A PLEASE NOTE: Unl	ess an assignee is ident	'Indication form ed. Use of a Customer A TO BE PRINTED ON Tified below, no assignee	(1) the names of up to or agents OR, alternative (2) the name of a single registered attorney or a 2 registered patent attolisted, no name will be THE PATENT (print or type data will appear on the part of the p	vely, e firm (having as a ggent) and the name rneys or agents. If i printed.  be) atent. If an assigne	memb es of u no nam	er a 2 p to lee is 3	ocument has been filed for
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NOTE: The Issue Fee and	s SMALL ENTITY statu d Publication Fee (if requ	s. See 37 CFR 1.27.	b. Applicant is no long	ger claiming SMAL	L EN	ГІТҮ status. See 37 CF	
		tes ratent and rrademark		Date			
Typed or printed name				Registration N	o		
an application. Confident submitting the completed this form and/or suggesti	tiality is governed by 35 application form to the ons for reducing this but irginia 22313-1450. DC	U.S.C. 122 and 37 CFR USPTO. Time will vary den. should be sent to th	1.14. This collection is est depending upon the indiverse Chief Information Office	imated to take 12 n idual case. Any co cr. U.S. Patent and '	ninutes mment Trader	s to complete, including s on the amount of tin park Office, U.S. Depa	by the USPTO to process) g gathering, preparing, and ne you require to complete rtment of Commerce, P.O. for Patents, P.O. Box 1450,

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10/567,456	03/29/2006	John Reid	BJS-620-415	4449
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NIXON & VANDERHYE, PC			ENSEY,	BRIAN
	EBE ROAD, 11TH FLO	OOR	ART UNIT	PAPER NUMBER
ARLINGTON, VA 22203		2614		
			DATE MAILED: 03/09/200	9

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 410 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 410 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)	
	Application No.	Applicanit(s)	
Notice of Allowability	10/567,456	REID, JOHN	
Notice of Allowability	Examiner	Art Unit	
	BRIAN ENSEY	2614	
The MAILING DATE of this communication appeall claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED or other appropriate comming the committee of the comm	in this application. If not included nunication will be mailed in due cours	se. <b>THIS</b>
1. 🔀 This communication is responsive to the amendment subr	<u>mitted 12/11/08</u> .		
2. 🔀 The allowed claim(s) is/are <u>1-8,10-17,21-35 renumbered 1</u>	<u>1-31</u> .		
<ul> <li>3.  Acknowledgment is made of a claim for foreign priority u</li> <li>a)  All b)  Some* c)  None of the:</li> <li>1.  Certified copies of the priority documents have</li> <li>2.  Certified copies of the priority documents have</li> </ul>	e been received. e been received in Applicat	ion No	
<ol><li>Copies of the certified copies of the priority do</li></ol>	cuments have been receiv	ed in this national stage application fi	rom the
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		le a reply complying with the requirer	nents
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which giv			E OF
5. CORRECTED DRAWINGS ( as "replacement sheets") mus	st be submitted.		
(a) ☐ including changes required by the Notice of Draftspers	son's Patent Drawing Revi	ew ( PTO-948) attached	
1) ☐ hereto or 2) ☐ to Paper No./Mail Date			
<ul><li>(b) ☐ including changes required by the attached Examiner' Paper No./Mail Date</li></ul>	s Amendment / Comment	or in the Office action of	
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the			:) of
<ol> <li>DEPOSIT OF and/or INFORMATION about the depo- attached Examiner's comment regarding REQUIREMENT</li> </ol>			:he
Attachment(s)	E □ Notice of	nformal Datant Application	
<ol> <li>Notice of References Cited (PTO-892)</li> <li>Dotice of Draftperson's Patent Drawing Review (PTO-948)</li> </ol>	_	nformal Patent Application	
	Paper No	Summary (PTO-413), b./Mail Date	
<ol> <li>Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 7/10/06 &amp; 12/11/08</li> </ol>	7. ∐ Examiner	s Amendment/Comment	
Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. 🛛 Examiner	s Statement of Reasons for Allowand	е
or biological Material	9. 🔲 Other	<u></u> :	
/Brian Ensey/	February 27, 2	2009	
Primary Examiner, Art Unit 2614			

Application/Control Number: 10/567,456 Page 2

Art Unit: 2614

#### **DETAILED ACTION**

The following is an examiner's statement of reasons for allowance: The present invention is directed to an electro-acoustic device for creating patterns of particulate matter. Independent claims 1, 2, 13, 24 and 33-35 identify the uniquely distinct feature of a housing comprising one open end with a diaphragm across the open end and provide a close hollow interior and a transducer to excite the diaphragm and produce a pattern in a mass of particulate located on the diaphragm indicative of the audio signal in combination with all the disclosed limitations of claims 1, 2, 13, 24 and 33-35. The closest prior art, Jenny (3407897) discloses a device for rendering visible acoustic vibrations but fails to teach a diaphragm extending across the open end to close a hollow interior of the housing (See applicant's arguments submitted 12/11/08, page 11 last two paragraphs) and Charriere (FR 2308156A) discloses a device to transform audio signals into an optical image but fails to teach a diaphragm extending across the open end to close a hollow interior of the housing (See applicant's arguments submitted 12/11/08, page 14, paragraph 4). The prior art fails to anticipate or render the independent claims obvious.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to BRIAN ENSEY whose telephone number is (571)272-7496. The examiner can normally be reached on Monday - Friday 6:00 AM - 2:30 PM.

Application/Control Number: 10/567,456 Page 3

Art Unit: 2614

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Curtis Kuntz can be reached on 571-272-7499. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Brian Ensey/ Primary Examiner, Art Unit 2614 February 26, 2009